



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Ruskin Company**  
**3900 Dr. Greaves Road**  
**Grandview, MO 64030**

**SCOPE:** This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Model ELF375DXD Aluminum Louver**

**APPROVAL DOCUMENT:** Drawing No. **60-021902-01D, 02D, 03D, 04B, 05B**, titled "ELF375DXD Test Louver", sheets 1 through 5 of 5, dated 05/26/2006, with last revision dated 11/20/2007, prepared by Ruskin Company, signed and sealed by Daniel J. Rau, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Geneva, AL, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**LIMITATION:** This louver is to be installed in a location where the room behind the louver is designed to drain water penetrating into the room, and the room will house water resistant/water proof equipment, components, or supplies.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 07-0621.07** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



*[Signature]*  
10/31/2012

NOA No. 12-0816.02  
Expiration Date: January 3, 2018  
Approval Date: November 8, 2012  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS “Submitted under NOA # 07-0621.07”**

1. Drawing No. **60-021902-01D, 02D, 03D, 04B, 05B**, titled “ELF375DXD Test Louver”, sheets 1 through 5 of 5, dated 05/26/2006, with last revision dated 11/20/2007, prepared by Ruskin Company, signed and sealed by Daniel J. Rau, P.E.

**B. TESTS “Submitted under NOA # 07-0621.07”**

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of ELF375DXD Test Louver, prepared by National Certified Testing Laboratories, Test Report No. **210-3377-1**, dated 03/19/2007, signed and sealed by Gerard J. Ferrara, P.E.

**C. CALCULATIONS “Submitted under NOA # 07-0621.07”**

1. Louver and anchor calculations prepared by Ruskin Engineering, dated 05/14/2007 and 11/20/2007, signed and sealed by Daniel J. Rau, P.E.

**D. QUALITY ASSURANCE**

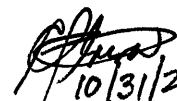
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS**

1. Test report on impact test of an ELF375DXD louver per AMCA 540, prepared by Ruskin Company, Test Report No. **053012E**, dated 05/30/2012, signed and sealed by Daniel J. Rau, P.E.

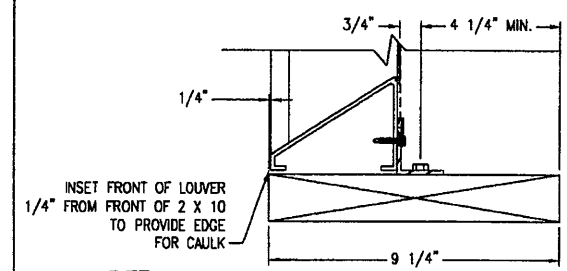
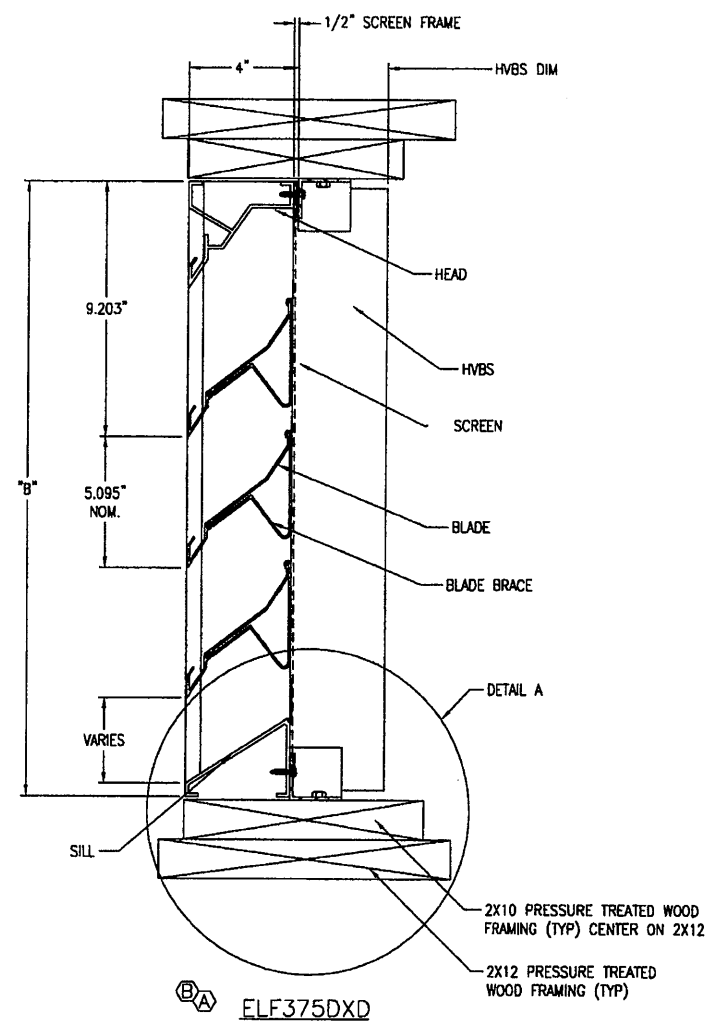
**F. STATEMENTS**

1. Statement letter of code conformance to 2010 FBC, issued by Ruskin Company, dated 06/13/2012, signed and sealed by Daniel J. Rau, P.E.  
  
“Submitted under NOA # 07-0621.07”
2. Code compliance letter issued by Ruskin Company, dated 05/25/2007, signed and sealed by Daniel J. Rau, P.E.
3. No financial interest letter issued by Ruskin Company, dated 05/25/2007, signed and sealed by Daniel J. Rau, P.E.
4. Code compliance letter issued by National Certified Testing Laboratories, dated 04/04/2007, signed and sealed by Gerard J. Ferrara, P.E.

  
10/31/2012

Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 12-0816.02  
Expiration Date: January 3, 2018  
Approval Date: November 8, 2012

FRAME	
6063-T5 extruded aluminum with .081" nominal wall thickness.	
Flange frame is same material and thickness as above.	
BLADES	
6063-T5 extruded aluminum with .081" nominal wall thickness. Blades are positioned at 37.5° angle.	
SCREEN	
5/8" x .040" expanded flat-tened aluminum bird screen.	
1/2" mesh x .063" aluminum bird screen.	
18-16 mesh alum insect screen	
No screen.	
FINISH	
Mill.	
Kynar (opt).	
Baked enamel (modified fluoropolymer, 50% Kynar, opt).	
Color Anodize (opt).	
Clear Anodize (opt).	
Color:	



DETAIL A  
N.T.S.

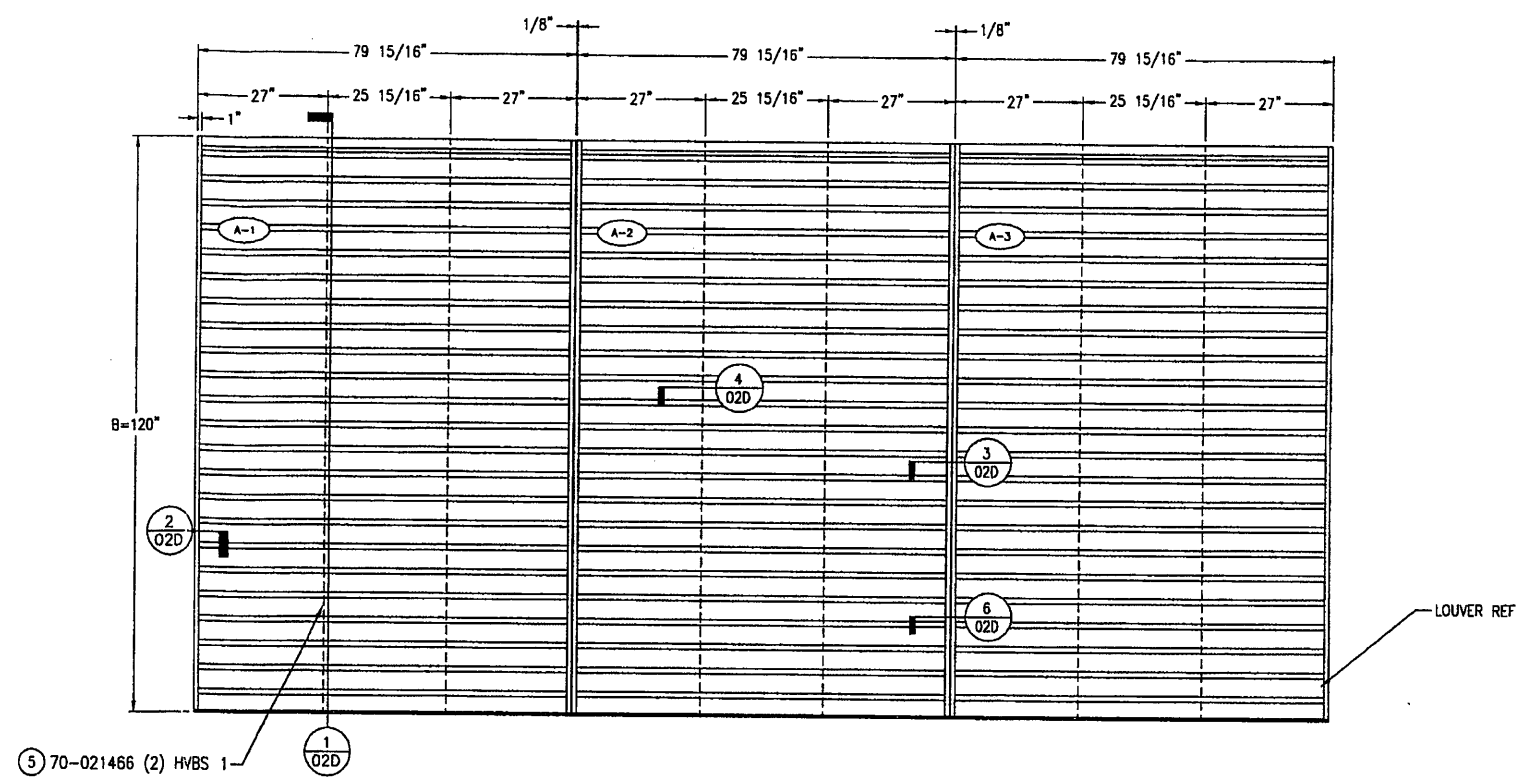
NOTES:

- 1) THE ELF375DXD HAS BEEN TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PROTOCOLS PA-201, 202 & 203 FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE AND CYCLIC WIND PRESSURE.
- 2) THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- 130 PSF OR LESS.
- 3) THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
- 4) LOUVER ANCHORS ARE REVIEWED FOR ATTACHMENT INTO STEEL, CONCRETE, MASONRY OR TIMBER SUBSTRUCTURE. MINIMUM EDGE DISTANCE AND EMBEDMENT REQUIREMENTS ARE SHOWN. RUSKIN DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE SUB-STRUCTURE.
- 5) MAXIMUM SINGLE SECTION SIZE: 79 15/16" WIDE X 120" HIGH.
- 7) MAXIMUM ASSEMBLED LOUVER SIZE: UNLIMITED WIDE X 120" HIGH. MAX. MULLION SPACING IS 79 15/16".
- 8) SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
- 9) TAS -100 (A) WIND DRIVEN RAIN TEST WAS NOT PERFORMED.

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No 12-0016-02  
Expiration Date 01/03/2018  
By *[Signature]*  
Miami Dade Product Control

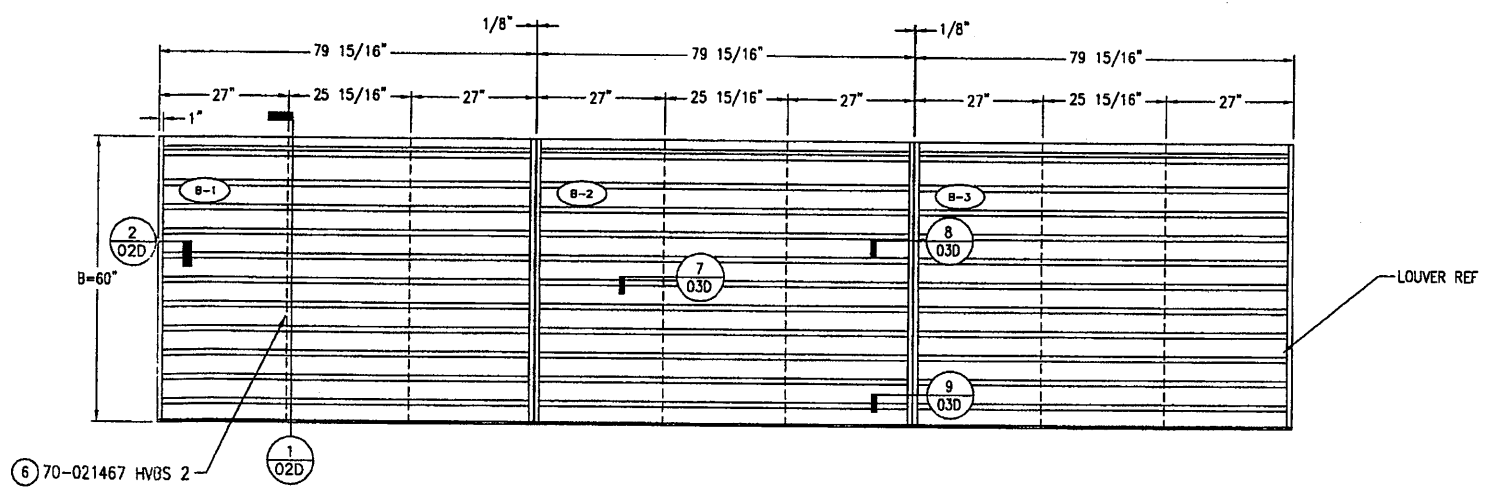
FOR OFFICE USE ONLY

01/03/2008  
07.06.21.07  
*[Signature]*



ASSEMBLY 'A' (FOR 'B' DIMENSIONS OVER 60" TO 120")  
N.T.S.

TESTS PERFORMED:  
PA-201/TAS-201 LARGE MISSILE IMPACT  
PA-202/TAS-202 UNIFORM STATIC AIR PRESSURE TEST  
PA-203/TAS-203 CYCLIC WIND PRESSURE TEST  
DESIGN PRESSURE RATING 130 PSF

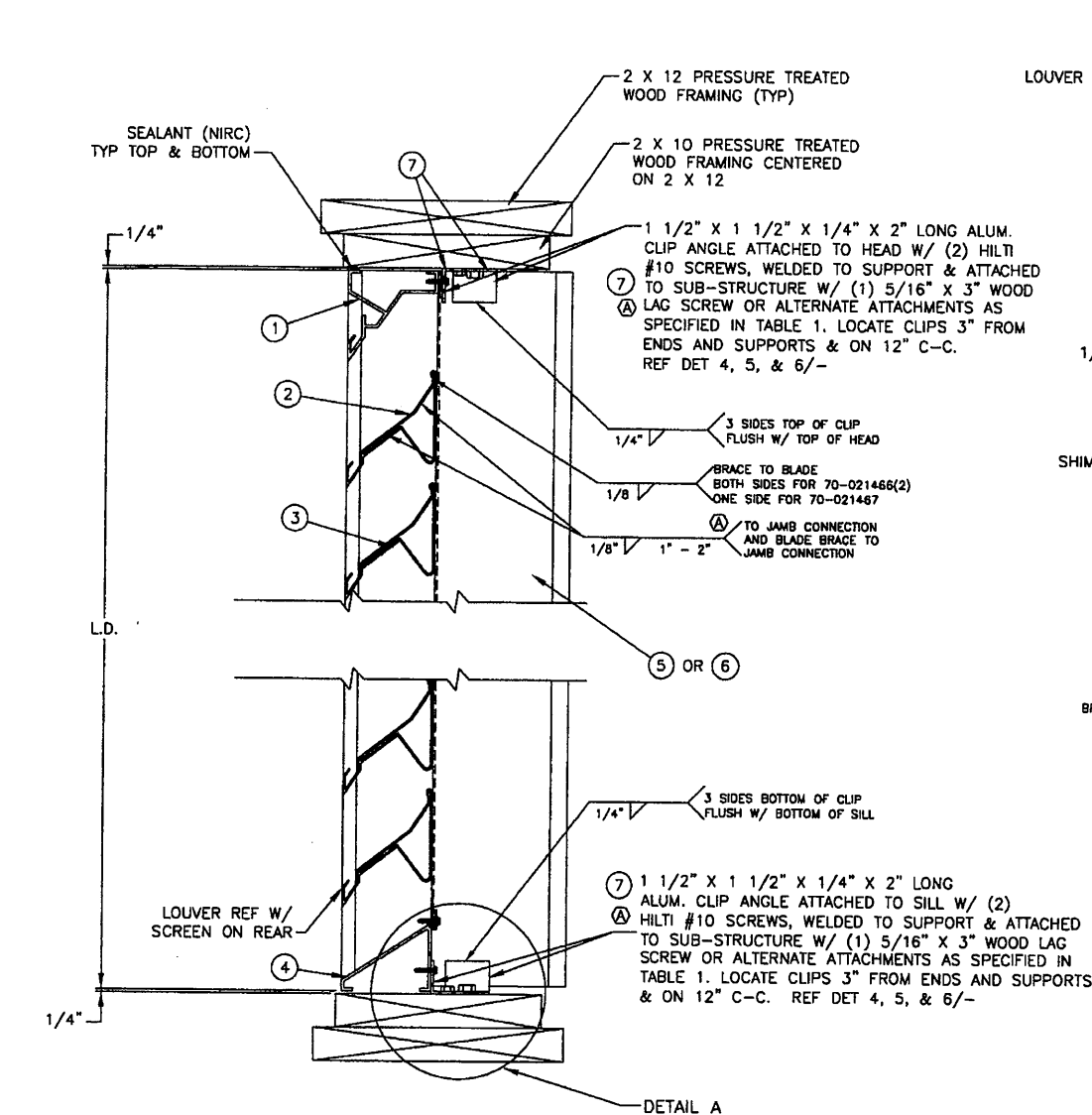


ASSEMBLY 'B' (FOR 'B' DIMENSIONS OF 12" TO 60")  
N.T.S.

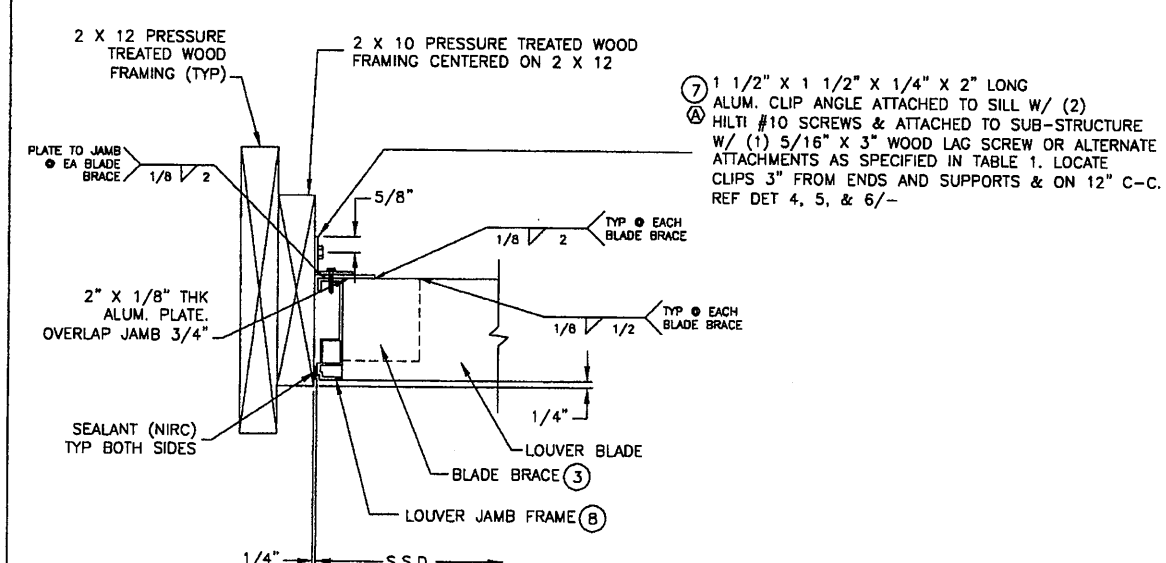
TESTS PERFORMED:  
PA-201/TAS-201 LARGE MISSILE IMPACT  
PA-202/TAS-202 UNIFORM STATIC AIR PRESSURE TEST  
PA-203/TAS-203 CYCLIC WIND PRESSURE TEST  
DESIGN PRESSURE RATING 130 PSF

*[Signature]* 11/20/2007

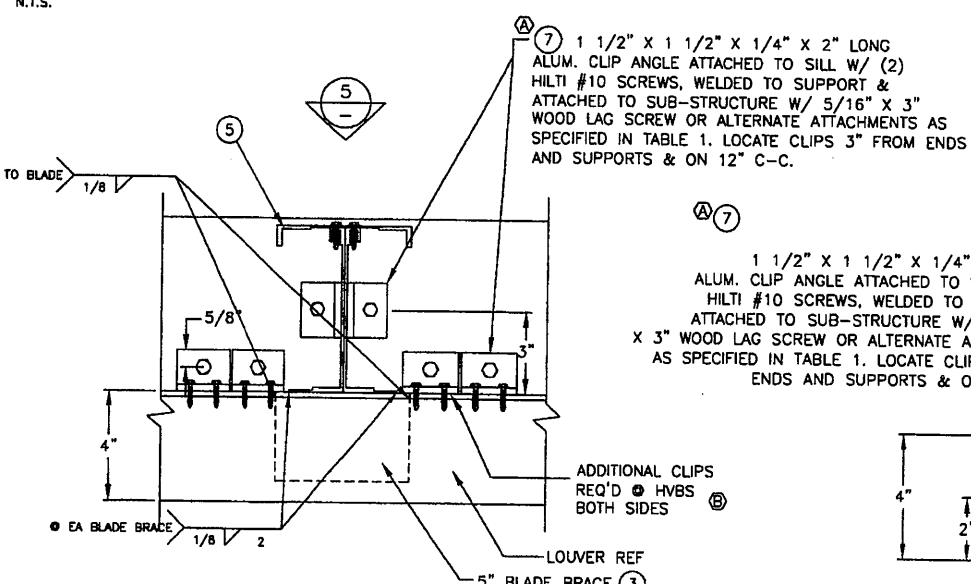
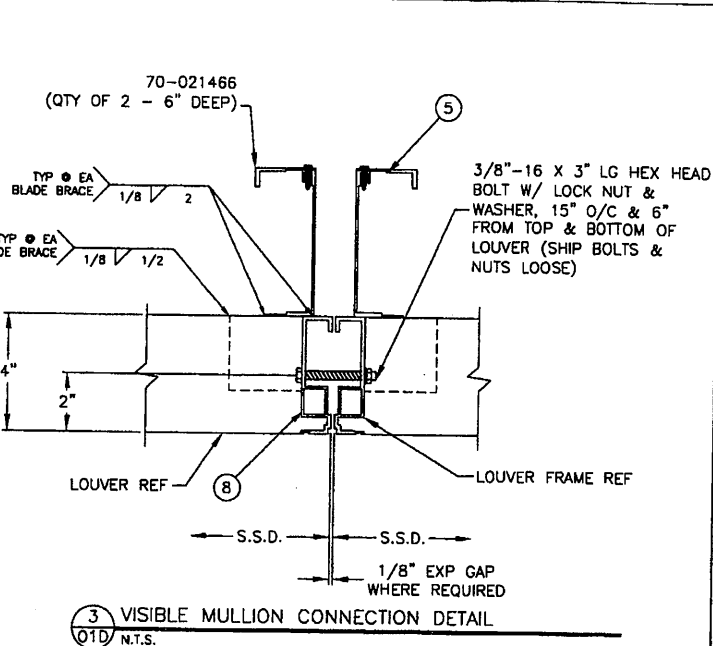
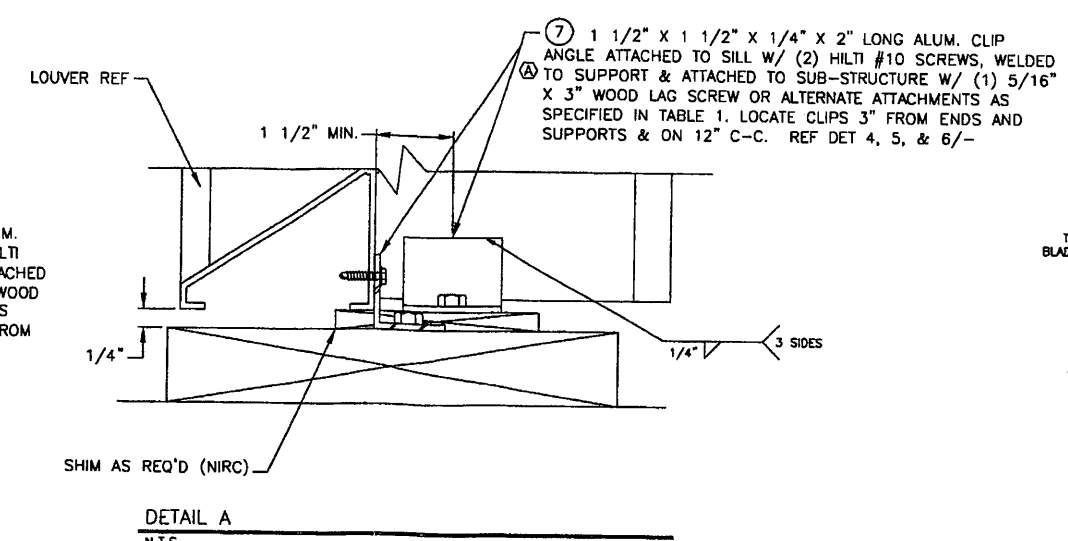
ENGINEER OF RECORD DANIEL J. RAU		ENGINEERING DISCIPLINE CIVIL ENGINEER		REGISTRATION NUMBER STATE OF FLORIDA #0063636	
DATE 3/15/06	BY DJR	DATE 5/25/06	BY DLC	DATE 5/25/06	BY DLC
SHEET 1 OF 5		ELF375DXD TEST LOUVER, SPEC, ASSY & NOTES		60-021902-01D	



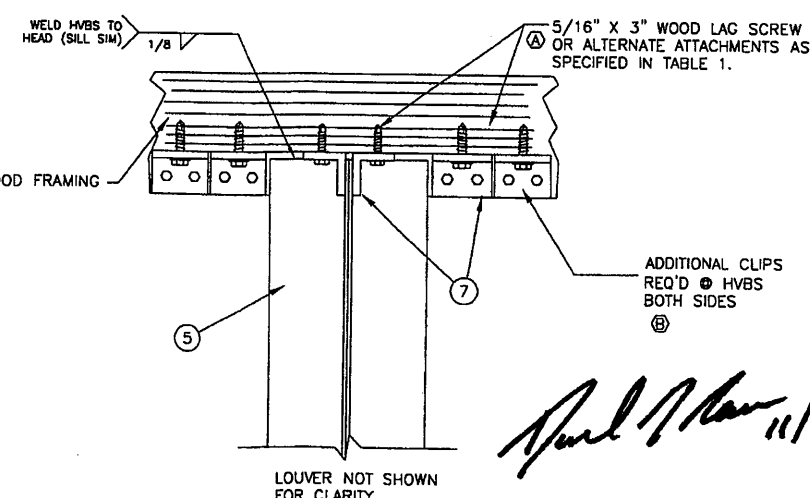
1 LOUVER DETAIL @ HEAD & SILL  
01D N.T.S.



2 LOUVER @ JAMB DETAIL  
01D N.T.S.



5 HVBS HEAD DETAIL @ WOOD FRAME (SILL SIM)  
N.T.S.



6 LOUVER ATTACHMENT @ VISIBLE MULLION DETAIL  
01D N.T.S.

FOR OFFICE USE ONLY

01/03/2008  
07-0621.07

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No 12-0816.02  
Expiration Date 01/03/2018

By *[Signature]*  
Miami Dade Product Control

DANIEL J. RAU  
ENGINEERING DISCIPLINE  
CIVIL ENGINEER  
REGISTRATION NUMBER  
STATE OF FLORIDA #0063636

REVISION	DESCRIPTION	DATE	BY
1	ADDED CLIP ANGLES PER CALCULATION REQUIREMENTS	11/20/07	DWS
2	REVISED DETAILS		GKJ

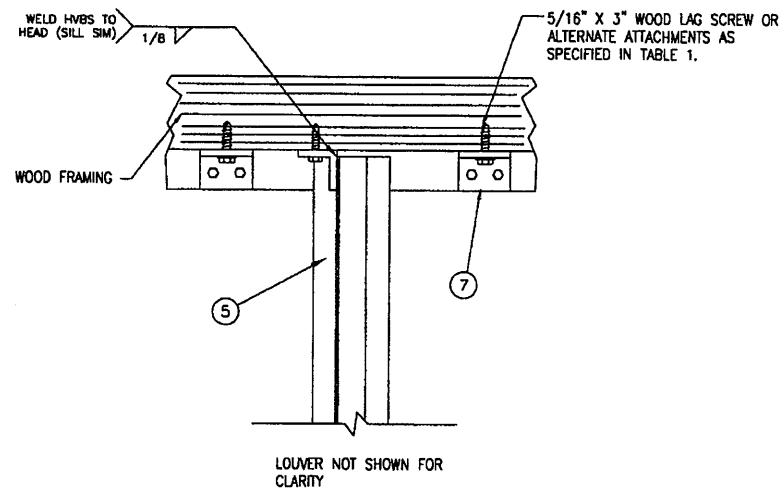
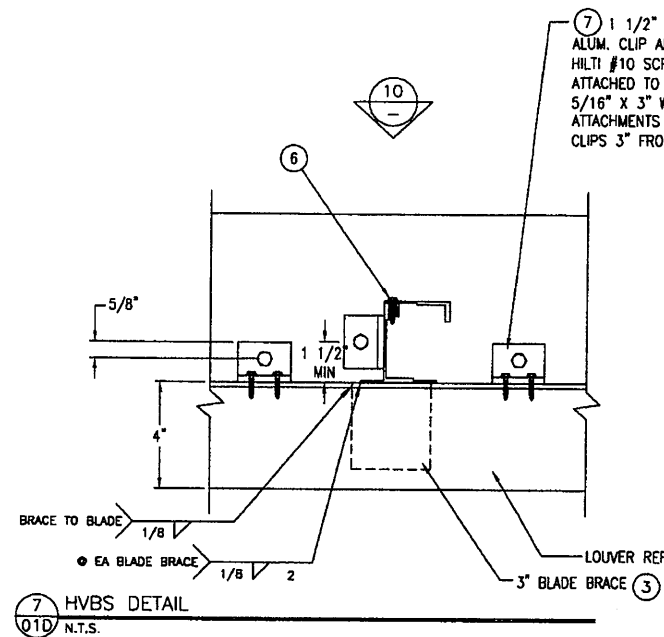
3000 DL. DESIGNED BY  
GANNONVIEW, MO 64020  
PROPRIETARY INFORMATION

RUSKIN  
SWARTWOUT

ELF375DXD TEST LOUVER  
DETAILS

60-021902-02D

SHEET 2 OF 5



10 HVBS HEAD DETAIL @ WOOD FRAME (SILL SIM)  
N.T.S. REAR VIEW

TABLE #2: DRAWING CROSS REFERENCE

ITEM	DRAWING	MATERIAL	DESCRIPTION	RUSKIN #
1	60-021902-04B	6063-T5 AL	HEAD FRAME	70-020574-00B
2	60-021902-04B	6063-T5 AL	BLADE	70-021524-00B
3	60-021902-04B	6063-T5 AL	BLADE BRACE	70-021526-00B
4	60-021902-04B	6063-T5 AL	SILL FRAME	70-020373-00B
5	60-021902-04B	6063-T6 AL	HVBS 1	70-021466-00B
6	60-021902-04B	6063-T6 AL	HVBS 2	70-021467-00B
7	60-021902-05B	VARIABLE	CLIP ATTACHMENT	85-020366-00B
8	60-021902-05B	6063-T5 AL	JAMB FRAME	70-020374-00B

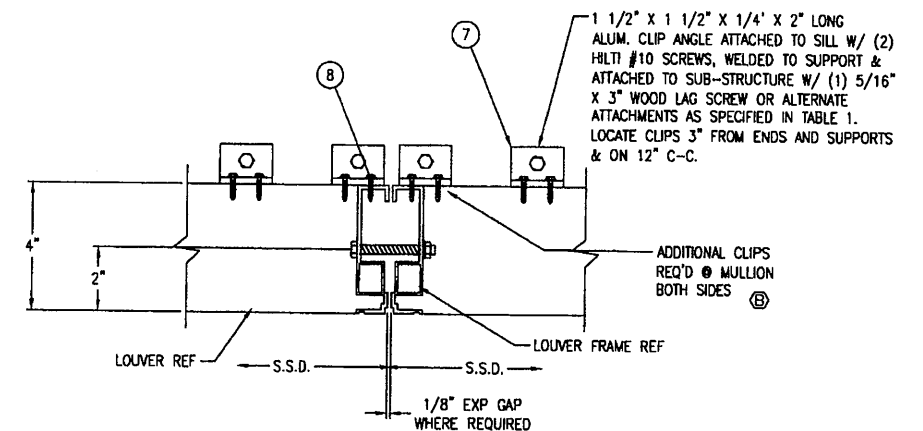
8 VISIBLE MULLION CONNECTION DETAIL  
N.T.S.

TABLE #1: ALTERNATE APPROVED ATTACHMENTS

BASE MATERIAL	DESCRIPTION	INSTRUCTIONS
CONCRETE 3000 MIN PSI	5/16 DIA TAPCON (ITW OR EQUAL)	1 3/4" EMBED., 2 IN MIN EDGE
CONCRETE 2000 MIN PSI	5/16 DIA EXPANSION ANCHOR (HILTI OR EQUAL)	2 1/2" EMBED., 5 IN MIN EDGE
GROUT FILLED BLOCK	5/16 DIA TAPCON (ITW OR EQUAL)	1 3/4" EMBED., 4 IN MIN EDGE
STEEL FRAMING (12 GA MIN)	5/16 DIA A307 BOLT OR SELF-TAPPING SCREW	1 1/2 x FASTENER DIA. MIN EDGE

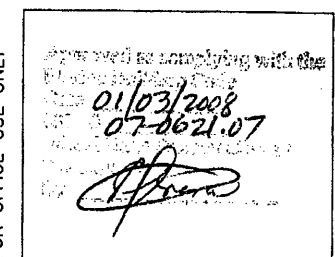
NOTE: ALL FASTENERS MUST BE INSTALLED PER THE MANUFACTURER'S FLORIDA/DADE COUNTY APPROVED INSTALLATION INSTRUCTIONS

9 LOUVER ATTACHMENT @ VISIBLE MULLION DETAIL  
N.T.S.

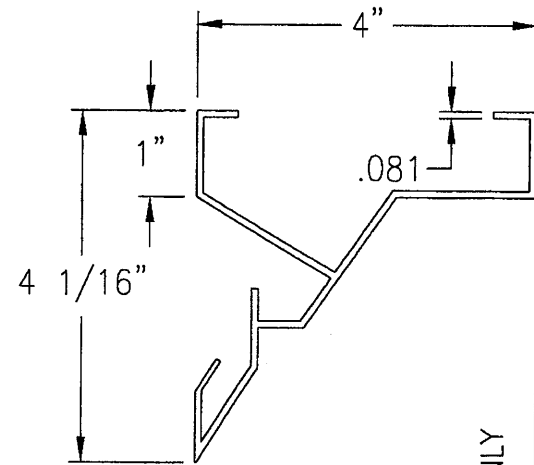


PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No 12-0816-02  
Expiration Date 01/03/2018  
By [Signature]  
Miami Dade Product Control

FOR OFFICE USE ONLY

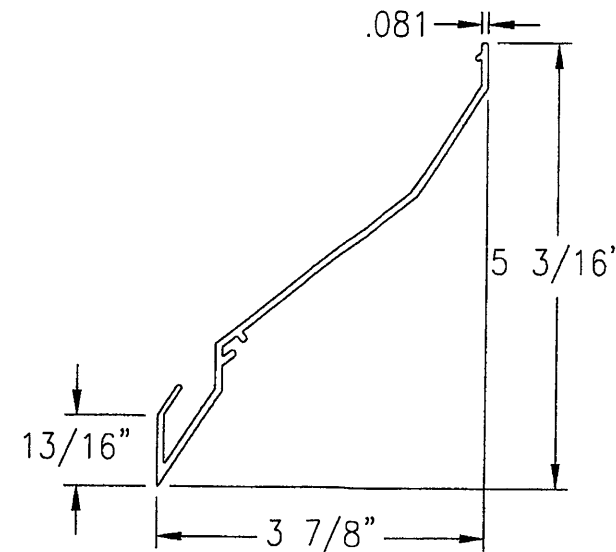
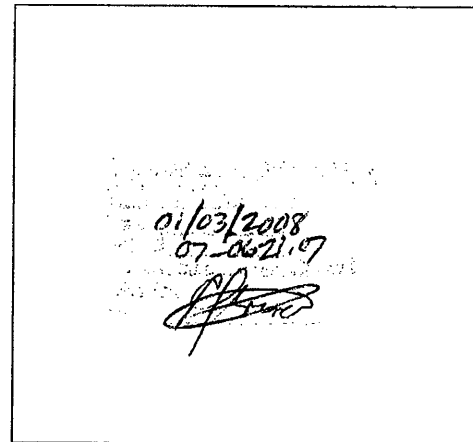


ENGINEER OF RECORD DANIEL J. RAU CIVIL ENGINEER REGISTRATION NUMBER STATE OF FLORIDA #0063636		8 ADDED CLIP ANGLES TO DETAIL 9 PER CALCULATIONS. DWS DJR DJR 11/20/07	
9 REVISIONS REVISION DESCRIPTION DATE 5/19/08 5/26/08 5/26/08		9 REVISIONS REVISION DESCRIPTION DATE 5/19/08 5/26/08 5/26/08	
SHEET 3 OF 5		85-020366-00B ELF375DXD TEST LOUVER DETAILS 60-021902-03D	

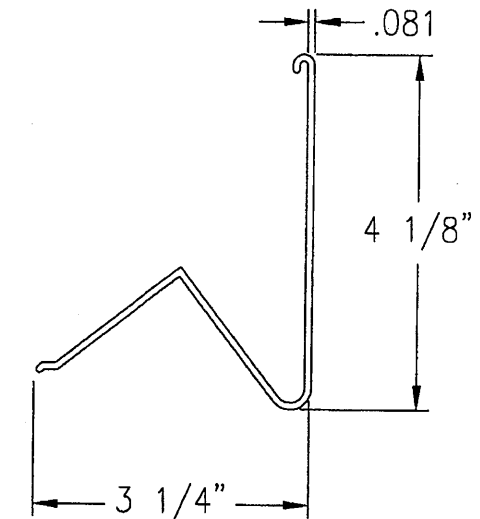


ITEM 1 - HEAD FRAME  
RUSKIN# 70-020574-00B

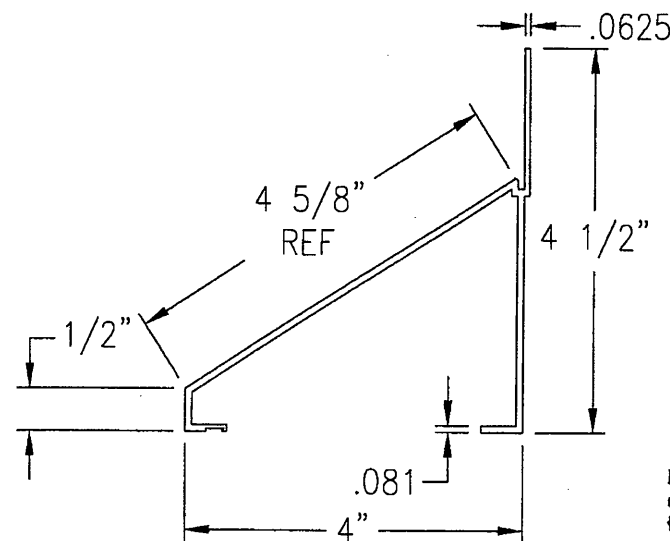
FOR OFFICE USE ONLY



ITEM 2 - LOUVER BLADE  
RUSKIN# 70-021524-00B

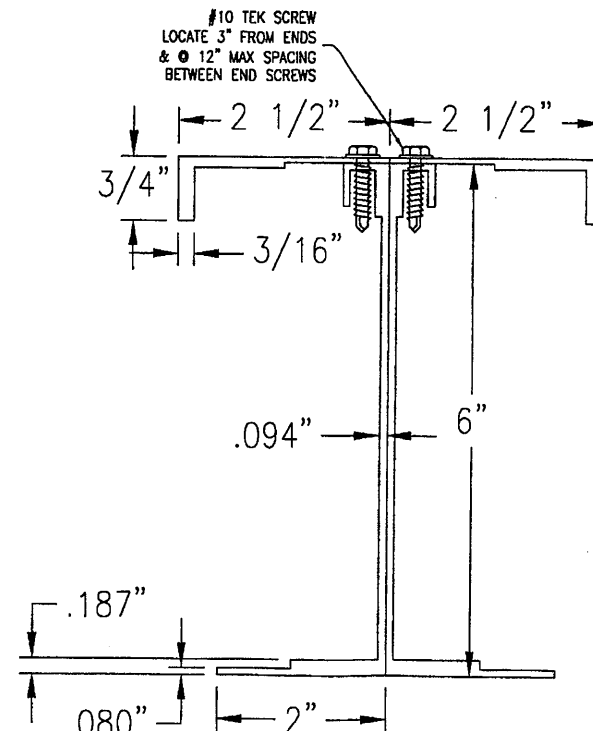


ITEM 3 - BLADE BRACE  
RUSKIN# 70-021526-00B

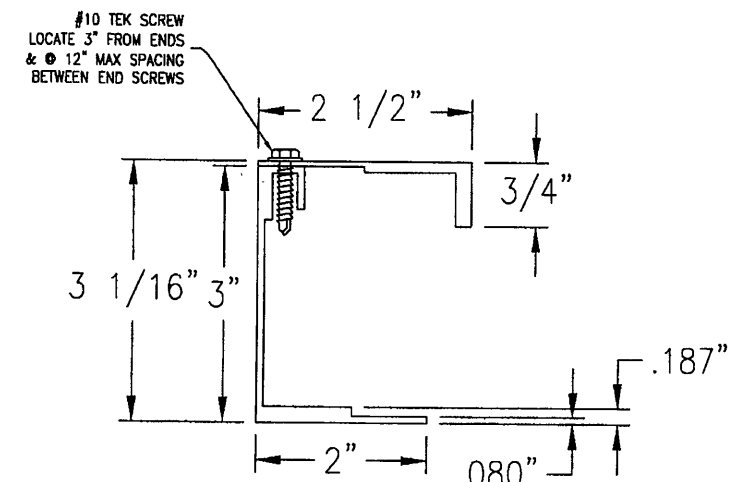


ITEM 4 - SILL FRAME  
RUSKIN# 70-020373-00B

PRODUCT RENEWED  
to comply with the Florida  
Building Code  
Acceptance No 12-0816-02  
Expiration Date 01/03/2018  
By *[Signature]*  
Miami Data Product Control



ITEM 5 - HIDDEN VERTICAL BLADE SUPPORT 1  
RUSKIN# 70-021466-00B



ITEM 6 - HIDDEN VERTICAL BLADE SUPPORT 2  
RUSKIN# 70-021467-00B

*[Signature]* 11/20/2007

ENGINEER OF RECORD  
DANIEL J. RAU  
ENGINEERING DISCIPLINE  
CIVIL ENGINEER  
REGISTRATION NUMBER  
STATE OF FLORIDA #0063636

TOLERANCES  
DECIMAL DIMENSIONS:  
3 PLACE .XXX ±.010  
2 PLACE .XX ±.020  
FRACTION DIMENSIONS: ± 1/16  
ANGLE DIMENSIONS: ± 2°  
USE W10-007 & 008  
UNLESS SPECIFIED OTHERWISE

DWN. BY: DLV  
DATE: 5/19/06  
CHK. BY: DLC  
DATE: 5/26/6  
APPV'D. BY: DLC  
DATE: 5/26/6  
APPV'D. BY:   
DATE:

SHEET 4 OF 5

<div>A</div>	REVISED MATERIAL THICKNESS	GKJ	DJR	DJR		11/20/07
CHANGE LETTER	REVISION DESCRIPTION	DWN. BY:	CHK'D. BY:	APPV'D. BY:	APPV'D. BY:	DATE
<div>RUSKIN</div> <div>SWARTWOUT</div>	3900 DR. GREAVES RD GRANDVIEW, MO 64030 PROPRIETARY INFORMATION	PLOT SCALE  NONE		DWG. CERTIFIED BY: _____ DATE: _____		
TITLE ELF375DXD TEST LOUVER PART DETAILS		DWG. NO.  60-021902-04B				

**TOLERANCES**  
**DECIMAL DIMENSIONS:**  
 3 PLACE .XXX  $\pm$ .010  
 2 PLACE .XX  $\pm$ .020  
**FRACTION DIMENSIONS:**  $\pm$  1/16  
**ANGLE DIMENSIONS**  $\pm$  2'  
**USE** WQ-007 & 008  
**UNLESS SPECIFIED OTHERWISE**